Case Studies: Great View

Filtered Surface Water System, Serving 15,000
 People, Using Direct Filtration

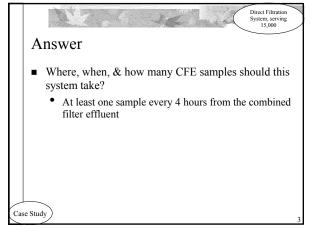
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- Where, when, & how many CFE samples should this system take?
- What is the limit for the CFE 95th% value?
- What is the system required to report to the state within 10 days?
- Where & how many IFE samples should this system take?
- Two consecutive IFE measurements are >1.0 NTU What is the system required to do?

Case Study

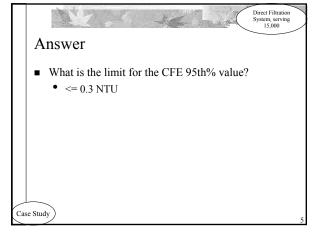
Where, when, & how many CFE samples should this system take?

- One per year at the source
- Five samples per month in the distribution system
- At least one sample every 4 hours from the combined filter effluent



What is the limit for the CFE 95th% value?

- 1.2 mg/L
- 1.0 NTU
- <= 0.3 NTU
- None of the above



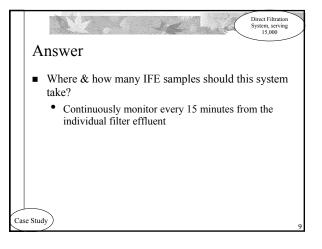
What is the system required to report to the state within 10 days?

- Percentage of CFE measurements <= 95th% limit
- Date and value of any CFE measurement that exceeded 1 NTU
- Total number of CFE measurements
- All of the above

Answer What is the system required to report to the state within 10 days? All of the above

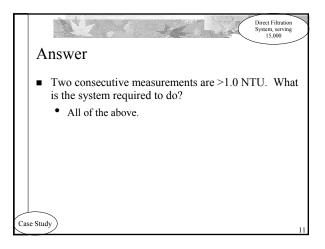
Where & how many IFE samples should this system take?

- 1 sample at the entry point to the distribution system
- 2 samples in the source water
- Continuously monitor every 15 minutes from the individual filter effluent
- At least every 4 hours at the entry point to the distribution system



Two consecutive IFE measurements are >1.0 NTU. What is the system required to do?

- If the cause cannot be determined, produce a filter profile within 7 days
- Report filter number, turbidity value(s) and date by the 10th of the following month
- Report the cause, or report that a filter profile has been completed, by the 10th of the following month,
- All of the above



Case Studies: Plain Valley

- Filtered GWUDI System, Serving 300 People, Using Slow Sand Filtration
 - What is the reduced monitoring frequency that the state can set for this system?
 - What is the maximum CFE limit?
 - What is the system required to report to the state within 10 days?
 - What are the removal/inactivation requirements for Viruses, Giardia Lamblia, and Cryptosporidium for this system?

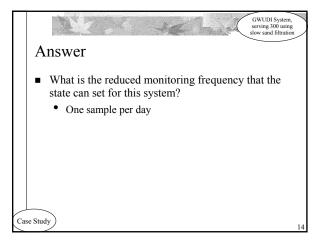
How many IFE samples should this system take?

Case Study

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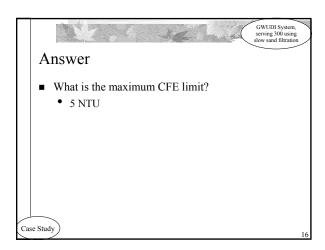
What is the reduced monitoring frequency that the state can set for this system?

- At least every 8 hours
- One sample per day
- Continuous monitoring every 2 hours
- Four samples per day



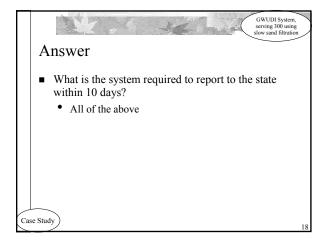
What is the maximum CFE limit?

- <= 1 NTU
- 5 NTU
- <= 0.3 NTU
- None of the above



What is the system required to report to the state within 10 days?

- Total number of monthly measurements
- Number and percent less than or equal to designated 95% turbidity limits
- Date and value exceeding 5 NTU
- All of the above



What are the removal/inactivation requirements for Viruses, Giardia Lamblia, and *Cryptosporidium* for this system?

- Viruses 4-log removal/inactivation, Giardia Lamblia - 3-log removal/inactivation, *Cryptosporidium* - 2-log removal
- Viruses 2-log removal/inactivation, Giardia Lamblia - 2-log removal/inactivation, Cryptosporidium - 3-log
- Viruses 3-log removal/inactivation, Giardia Lamblia - 4-log removal/inactivation, *Cryptosporidium* - 4-log removal



Answer

- What are the removal/inactivation requirements for Viruses, Giardia Lamblia, and Cryptosporidium for this system?
 - Viruses 4-log removal/inactivation, Giardia Lamblia - 3-log removal/inactivation, Cryptosporidium - 2-log removal

Case Study

How many IFE samples should this system take?

- At least every 4 hours
- Continuous monitoring every 15 minutes
- Not required
- Once per day

serving 300 using slow sand filtration Answer ■ How many IFE samples should this system take? • Not required. Case Study